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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/731,169

12/10/2003

Sang-Hyeon Kim

45281

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03/24/2005

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EXAMINER

DUONG, HUNG V

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/731,169	KIM ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Hung v. Duong	2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-20 is/are allowed.
- 6) ☒ Claim(s) 21-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

*Hung V. Duong*

**HUNG VAN DUONG**  
**PRIMARY EXAMINER**

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/10/03</u> . | 6) <input type="checkbox"/> Other: ____.  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Haraguchi et al (US Pat. 6,813,146).

Regarding claims 21-22, Haraguchi et al disclose a method for operating a portable wireless terminal which comprises a rotary type hinge device 13 for a portable wireless terminal, which is installed between a terminal body 11, 12 and a folder of the portable wireless terminal, the method comprising: opening and closing the terminal body 11, 12 and folder about a first rotation axis; rotating the folder about a second rotation axis in a state wherein the folder and terminal body are opened, wherein the second rotation axis extends transverse to the first rotation axis (figures 2, and figure 5); rotating the folder about the first axis, causing the folder to be opened, wherein the folder includes a front main surface and a rear main surface; rotating the folder about the second axis, causing a reversal of the front main surface with the rear main surface;

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and rotating the reversed folder about the first axis, thereby fitting the folder into the terminal body such that the portable wireless terminal can be used in the first mode (figures 2, and figure 5).

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haraguchi et al (US Pat. 6,813,146) as applied to claim 24 above, and further in view of Silvester (US Pat. 6,812,958).

Regarding claim 24, Haraguchi et al disclose all the subject matter of the claimed invention except for a camera lens, thereby providing motion picture service and video communication. However Silvester discloses the camera lens (see Silvester's figure 1). Therefore, it would be obvious to one of ordinary skill to include a camera lens in and a display of Silvester into Haraguchi et al's portable in order to provide motion picture service and video communication control the airflow movement.

4. Claims 23, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haraguchi et al (US Pat. 6,813,146) as applied to claim 24 above, and further in view of Satake (US Pat. 6,798, 132).

Regarding claims 23, 25, Haraguchi et al disclose all the subject matter of the claimed invention except for the first mode comprises PDA terminal mode and the rotation of the folder about the first and second axis prevents damage to a flexible printed circuit providing electrical connection between the folder and terminal body . However Satake discloses PDA terminal mode and the flexible printed circuit providing electrical connection between the folder and terminal body. Therefore, it would be obvious to one of ordinary skill to modify PDA terminal mode and flexible printed circuit of Satake into Haraguchi et al' s portable wireless in order be convenient in PDA system and to protect the electrical connection accordingly.

***Allowable Subject Matter***

5. Claims 1-20 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

the prior art fails to show that a shaft frame unit formed with a fixing protrusion extended downwardly from a lower end thereof which corresponds to the support groove, and at its inner surface around the lower end with a seating recess having a certain depth, the shaft frame unit defining a cam hole in the direction of the first rotation axis when the fixing protrusion is fixed into the support groove, the shaft frame unit further being formed at its upper end with a second opening for exposing the seating recess toward the direction of the second rotation axis; a main shaft unit rotatably positioned in the seating recess at its one end, and supported by the second opening at a certain

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position, the main shaft unit being formed with a shaft cam adapted to rotate about the second rotation axis within the cam hole of the shaft frame unit; and a coil spring received in one side of the hinge housing and adapted to provide a certain elastic force to the shaft cam of the main shaft unit.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Marcinkiewiewicz et al (US Pat. 6,840,796) teach portable electronic device with flexible connection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung v Duong whose telephone number is 571-272-2041. The examiner can normally be reached on M-F from 8:30 to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Field can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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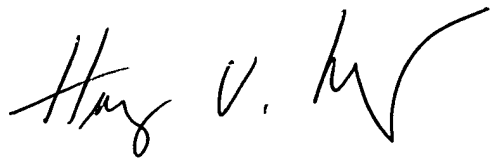
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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HVD

3/17/05

A handwritten signature in black ink, appearing to read 'Hung V. Duong', with a stylized flourish at the end.

Hung Duong  
Primary Examiner.